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CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date: MAR 19 2003
Edited by:
Verified by: (STIC staff)

Serial Number: 09/249,016

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- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING DATE: 03/06/2003
PATENT APPLICATION: **US/09/249,011B** TIME: 19:09:45

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\03062003\I249011B.raw**

<110> APPLICANT: Co, Man Sung
Vasquez, Maximiliano
Carreno, Beatriz
Delnikov, Abbie Cheryl
Collins, Mary
Goldman, Samuel
Gray, Gary S.
Knight, Andrea
O'Hara, Denise
Rup, Bonita
Veldman, Geertruida M.
<120> TITLE OF INVENTION: HUMANIZED IMMUNOGLOBULIN REACTIVE WITH B7-2 MOLECULES AND METHODS OF
TREATMENT THEREWITH
<130> FILE REFERENCE: 0870.1081-0000
<140> CURRENT APPLICATION NUMBER: 09/249,011B
<141> CURRENT FILING DATE: 1999-02-12
<160> NUMBER OF SEQ ID NOS: 52
<170> SOFTWARE: PatentIn version 3.1
<210> SEQ ID NO: 1
<211> LENGTH: 405
<212> TYPE: DNA
<213> ORGANISM: Murine anti-B7-2 heavy chain
<220> FEATURE:
<221> NAME/KEY: CDS
<222> LOCATION: (1)..(405)
<223> OTHER INFORMATION:

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 1               5                  10                  15

gtg cac tcc cag gtc cag ctg cag cag tct ggg cct gag ctg gtg agg       96
Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg
            20                  25                  30

cct ggc gaa tca gtg aag att tcc tgc aag ggt tcc ggc tac aca ttc      144
Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe
        35                  40                  45

act gat tat gct ata cag tgg gtg aag cag agt cat gca aag agt cta      192
Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu
    50                  55                  60

gag tgg att gga gtt att aat att tac tat gat aat aca aac tac aac      240
Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
65                  70                  75                  80

caa aag ttt aag ggc aag gcc aca atg act gta gac aaa tcc tcc agc      288
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RAW SEQUENCE LISTING DATE: 03/06/2003
PATENT APPLICATION: US/09/249,011B TIME: 14:09:45

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03062003\I249011B.raw

59 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser
60 85 90 95
62 aca gcc tat atg gaa ctt gcc aga ttg aca tct gag gat tct gcc atc 336
63 Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile
64 100 105 110
66 tat tac tgt gca aga gcg gcc tgg tat atg gac tac tgg ggt caa gga 384
67 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
68 115 120 125
70 acc ctg gtc acc gtc tcc tca 405
71 Thr Leu Val Thr Val Ser Ser
72 130 135
74 <210> SEQ ID NO: 2
75 <211> LENGTH: 135
76 <212> TYPE: PRT
77 <213> ORGANISM: Murine anti-B7-2 heavy chain
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80 Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly
81 1 5 10 15
83 Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Arg
84 20 25 30
86 Pro Gly Glu Ser Val Lys Ile Ser Cys Lys Gly Ser Gly Tyr Thr Phe
87 35 40 45
89 Thr Asp Tyr Ala Ile Gln Trp Val Lys Gln Ser His Ala Lys Ser Leu
90 50 55 60
92 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
93 65 70 75 80
102 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Ser Ser
103 85 90 95
106 Thr Ala Tyr Met Glu Leu Ala Arg Leu Thr Ser Glu Asp Ser Ala Ile
107 100 105 110
110 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
111 115 120 125
114 Thr Ser Val Thr Val Ser Ser
115 130 135
118 <210> SEQ ID NO: 3
119 <211> LENGTH: 396
120 <212> TYPE: DNA
121 <213> ORGANISM: Murine anti-B7-2 light chain
124 <220> FEATURE:
124 <221> NAME/KEY: CDS
125 <222> LOCATION: (1)..(396)
126 <223> OTHER INFORMATION:

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130 Met Asp Ser Gln Ala Gln Val Leu Ile Leu Leu Leu Trp Val Ser
131 1 5 10 15
133 ggt acc tgt ggg gac att gtg ctg tca cag tct cca tcc tcc ctg gct 96
134 Gly Thr Cys Gly Asp Ile Val Leu Ser Gln Ser Pro Ser Ser Leu Ala
135 20 25 30

RAW SEQUENCE LISTING DATE: 03/06/2003
PATENT APPLICATION: US/09/249,011B TIME: 14:09:45

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03062003\I249011B.raw

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137 gtg tca gca ggg gag aag gtc act atg agc tgc aaa tcc agt cag agt      144
138 Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
139          35                  40                  45
141 ctg ttc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag      192
142 Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
143      50                  55                  60
145 aaa cca ggg cag tct cct aaa ctg ctg atc tac tgg gca tcc act agg      240
146 Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
147  65                  70                  75                  80
149 gaa tct ggg gtc cct gat cgc ttc aca ggc agt gga tct ggg aca gat      288
150 Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
151                  85                  90                  95
153 ttc act ctt acc atc agc agt gtg cag gct gaa gac ctg gca gtt tat      336
154 Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr
155             100                 105                 110
157 tac tgc acg caa tct tat aat ctt tac acg ttc gga gga ggg acc aag      384
158 Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Gly Thr Lys
159         115                 120                 125
161 ttg gaa ata aaa                                                  396
162 Leu Glu Ile Lys
163     130
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 13.
168 <212> TYPE: PRT
169 <213> ORGANISM: Murine anti-B7-2 light chain
171 <400> SEQUENCE: 4
173 Met Asp Ser Gln Ala Gln Val Leu Ile Leu Leu Leu Leu Trp Val Ser
174  1               5                  10                  15
177 Gly Thr Cys Gly Asp Ile Val Leu Ser Gln Ser Pro Ser Ser Leu Ala
178             20                  25                  30
181 Val Ser Ala Gly Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser
182         35                  40                  45
185 Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
186     50                  55                  60
189 Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
190 65                  70                  75                  80
193 Glu Ser Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
194                 85                  90                  95
197 Phe Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr
198             100                 105                 110
201 Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gly Gly Thr Lys
202         115                 120                 125
205 Leu Glu Ile Lys
206     130
208 <210> SEQ ID NO: 5
210 <211> LENGTH: 405
211 <212> TYPE: DNA
213 <213> ORGANISM: Humanized murine anti-human B7-2 heavy chain
214 <220> FEATURE:
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/249,011B

DATE: 03/06/2003
TIME: 10:19:45

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03062003\I249011B.raw

215 <221> NAME/KEY: CDS
216 <222> LOCATION: (1)..(405)
217 <223> OTHER INFORMATION:
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221 Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly
222 1 5 10 15
224 gtg cac tcc cag gtc cag ctg gtg cag tct ggg gct gag gtg aag aag 96
225 Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
226 20 25 30
228 cct ggg agc tca gtg aag gtg tcc tgc aaa gct tcc ggc tac acc ttc 144
229 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
230 35 40 45
232 act tat tat gct ata cag tgg gtg aga cag gct cct gga cag ggc ctc 192
233 Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
234 50 55 60
236 gag tgg att gga gtt att aat act tac tat gat aat aca aac tac aac 240
237 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
238 65 70 75 80
240 cag aag ttt aag ggc aag gcc aca ctg act gta gac aag tcg acg agc 288
241 Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Thr Ser
242 85 90 95
244 aca gcc tat atg gag ctt agt tct ttg aga tct gag gat acg gcc gtt 336
245 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
246 100 105 110
248 tat tac tgt gca aga gcg ggc tgg tat atg gac tac tgg ggt caa ggt 384
249 Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
250 115 120 125
252 acc ctt gtc acc gtc tcc tca 405
253 Thr Leu Val Thr Val Ser Ser
254 130 135
257 <210> SEQ ID NO: 6
258 <211> LENGTH: 135
259 <212> TYPE: PRT
260 <213> ORGANISM: Humanized murine anti-human B7-2 heavy chain
262 <400> SEQUENCE: 6
264 Met Gly Trp Asn Cys Ile Ile Phe Phe Leu Val Thr Thr Ala Thr Gly
265 1 5 10 15
266 Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
269 20 25 30
272 Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
275 35 40 45
276 Thr Asp Tyr Ala Ile Gln Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
277 50 55 60
280 Glu Trp Ile Gly Val Ile Asn Ile Tyr Tyr Asp Asn Thr Asn Tyr Asn
281 65 70 75 80
284 Gln Lys Phe Lys Gly Lys Ala Thr Met Thr Val Asp Lys Ser Thr Ser
285 85 90 95
288 Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val

RAW SEQUENCE LISTING DATE: 03/06/2003
PATENT APPLICATION: US/09/249,011B TIME: 19:09:45

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03062003\I249011B.raw

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Tyr Tyr Cys Ala Arg Ala Ala Trp Tyr Met Asp Tyr Trp Gly Gln Gly
            115                 120                 125
Thr Leu Val Thr Val Ser Ser
        130                 135
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<211> LENGTH: 396
<212> TYPE: DNA
<213> ORGANISM: Humanized murine anti-human B7-2 light chain
<220> FEATURE:
<221> NAME/KEY: CDS
<222> LOCATION: (1)..(396)
<223> OTHER INFORMATION:
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1               5                  10                  15
gga acc tgt ggg gac att gtg ctg acc cag tct cca gat tcc ctg gct        96
Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
            20                  25                  30
gtg agc ttg ggc gag agg gcc act att agc tgc aaa tcc agt cag agt       144
Val Ser Leu Gly Glu Arg Ala Thr Ile Ser Cys Lys Ser Ser Gln Ser
        35                  40                  45
ctg ttc aac agt aga acc cga gag aac tac ttg gct tgg tac cag cag       192
Leu Leu Asn Ser Arg Thr Arg Glu Asn Tyr Leu Ala Trp Tyr Gln Gln
    50                  55                  60
aaa cca gga cag cct cct aaa ctg ctg atc tac tgg gca tcc act agg       240
Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
65                  70                  75                  80
gaa tct ggg gtc cct gat cgc ttc agt ggc agt gga tct ggg aca gat       288
Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
                85                  90                  95
ttc act ctc acc atc agc agt ctg cag gct gaa gat gtg gca gtt tat       336
Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr
            100                 105                 110
tac tgc acg caa tct tat aat ctt tac acg ttc gga cag ggg acc aag       384
Tyr Cys Thr Gln Ser Tyr Asn Leu Tyr Thr Phe Gly Gln Gly Thr Lys
        115                 120                 125
gtg gaa ata aaa                                                       396
Val Glu Ile Lys
    130
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<211> LENGTH: 132
<212> TYPE: PRT
<213> ORGANISM: Humanized murine anti-human B7-2 light chain
<400> SEQUENCE: 8
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1               5                  10                  15
Gly Thr Cys Gly Asp Ile Val Leu Thr Gln Ser Pro Asp Ser Leu Ala
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VERIFICATION SUMMARY
PATENT APPLICATION: US/09/249,011B

DATE: 3/06/2003
TIME: 13:09:46

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\03062003\I249011B.raw

L:37 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:35
L:128 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:126
L:219 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:217
L:310 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:308
L:430 M:281 W: Numeric Fields not Ordered, <211> Sort in ascending order!
L:434 M:258 W: Mandatory Feature missing, <213> Tag not found for SEQ ID#:11
L:470 M:281 W: Numeric Fields not Ordered, <211> Sort in ascending order!
L:474 M:258 W: Mandatory Feature missing, <213> Tag not found for SEQ ID#:13
L:501 M:281 W: Numeric Fields not Ordered, <211> Sort in ascending order!
L:504 M:258 W: Mandatory Feature missing, <213> Tag not found for SEQ ID#:15
L:540 M:281 W: Numeric Fields not Ordered, <211> Sort in ascending order!
L:543 M:258 W: Mandatory Feature missing, <213> Tag not found for SEQ ID#:17
L:571 M:281 W: Numeric Fields not Ordered, <211> Sort in ascending order!
L:574 M:258 W: Mandatory Feature missing, <213> Tag not found for SEQ ID#:19
L:1436 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 43